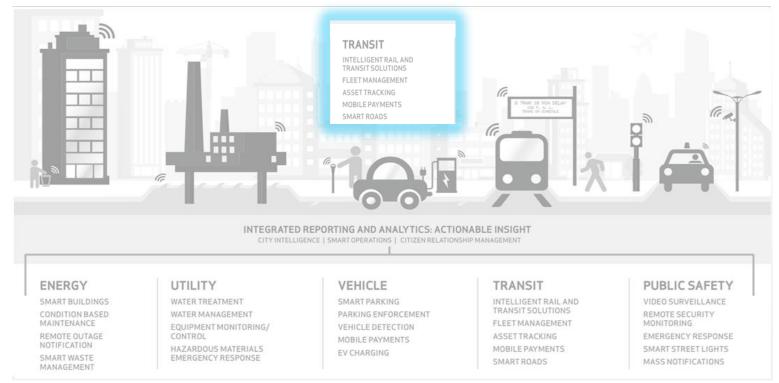
Game Changing Analytics to the Explosion of Video

- What is the next level of Video and Data Analytics?
- Smarter Safer Communities
- Impact of Social Media
- End-to End Solution



Objective: Safer, Smarter, More Efficient Communities





Challenges within the Current Environment



Disparate Systems Without Integration



- Multiple manufacturers of existing gear
 - Different standards and specifications
- Lack of interoperability across enterprise because of stovepipes
- Islands of information restricts understanding and sharing
- Costly management of IT resources
- Decisions made without access to all the information
- Minimal Situational Awareness



Technology Advances Make Video Accessible

Technology = Accessibility



- Migration from analog to IP cameras
- High-definition cameras are becoming more affordable
- Ability to correlate data from multiple sensors
- Cloud based apps and data for access anywhere
- Improved analytics for better decision making and better outcomes
- Predictive analytics to help prevent or deter future incidents
- Multiple map layers for better insights



Value in Visualization: Use Case

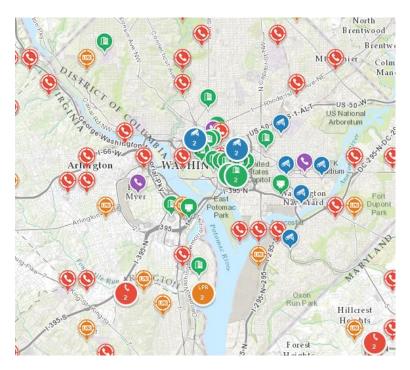
A Train Derailment occurs in a major city

- The Rail company needs to initiate emergency procedures
- First responders need to understand depth and degree of injuries
- Public Safety needs to cordon off the area and re-route traffic
- Public Transportation needs to divert buses and or trains
- Fire and rescue for type/amount of equipment to the scene
- Public/Private Partnership enables access to cameras on site
- Everyone requires Situational Awareness



End to End "Visualization" Solution

- Capture all sensors and event data
- Transmit relevant data
- Correlate and visualize on a single map
- Process via integrated workflow
- Store data where it can be accessed quickly
- Analyze data and video associated with incidents
- Share information





Intelligence Gathered Right From the Scene



Emergency Management Operations can now Effectively Monitor Online Social Media



- Agency can define parameters using keywords and geographic boundaries to create specific alarms
- Alarms are automatically integrated into the mapping interface to create situational awareness

Some statistics

- In 20 minutes, 2,716,000 messages are sent on Facebook
- 400 million Tweets are sent every day

Data and Challenges in Transportation

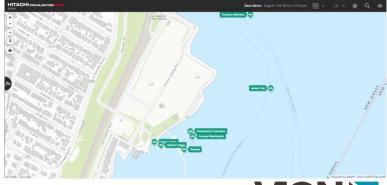


Case Study: NY Waterways

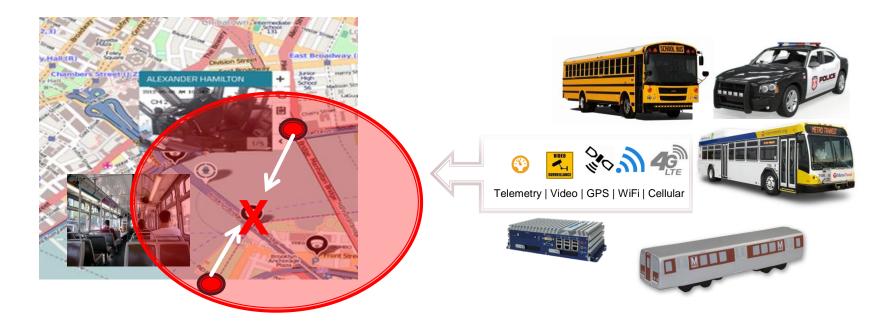


- NYWATERWAY the largest privately owned commuter ferry in the US chose (HVS) to manage their security assets (terminals and ferries).
 - The Problem:
 - Lack of awareness of what is happening on the ferries and terminals. Multiple dashboards to manage security assets.
 - The Solution:
 - HVS allows NYWATERWAY to manage video from disparate systems on a unified web-based platform.
 HVS provides the integration with VOIP phones, PA, AIS data and other sensors (vessels telemetry).
 - The Results:
 - NYWW is now more prepared to control any type of crisis. From a single dashboard, NYWW can now monitor and share their assets in real time with NYPD, NJ/NY Port Authorities and other federal agencies.





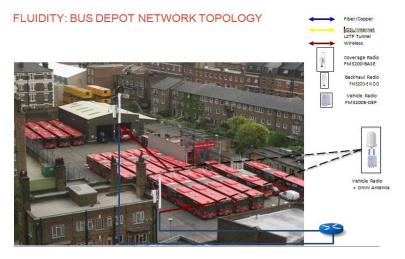
Transportation

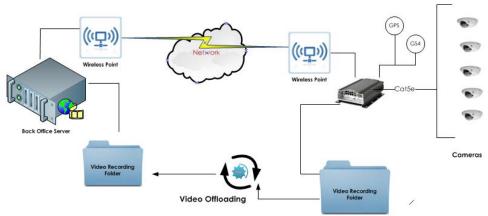


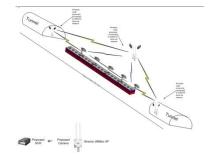
Track mobile assets in real time | On-demand streaming of live video | Ruggedized NVR for recording | Gateway software only transmits relevant data to save bandwidth and transmission costs



Use Case - Big Data and Video Rapid Offloading for Transportation





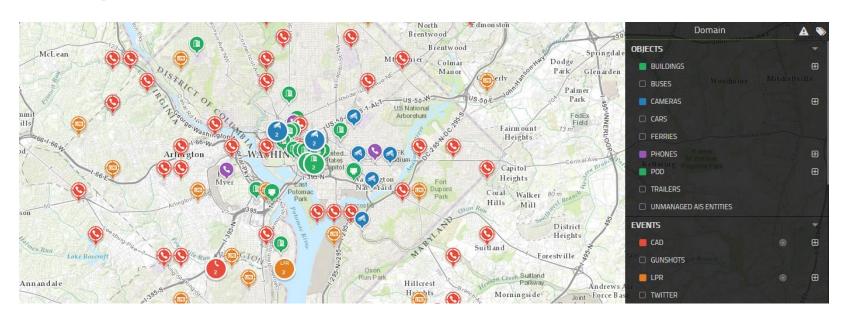




Visualization



Analytics:

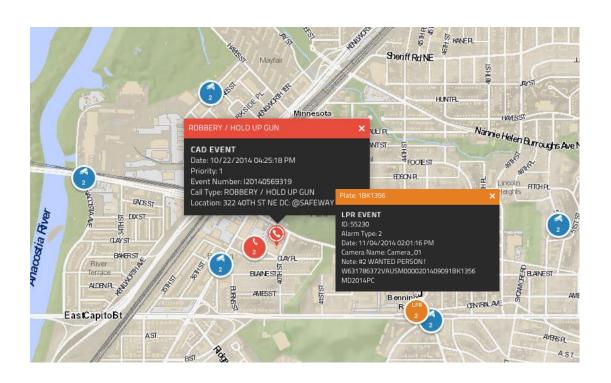


911 Calls, Cameras, Phones, License Plate Readers, Environmental Sensors, Social Media



Disparate Data

- Visually link data from disparate systems
- Search on nearby video recordings based on date and time of events
- Integrate any type of event sources





Timelines

- Visual history of events displayed in an intuitive timeline
- Quick access to historical event data including video





Moving Objects

- Track moving objects in real-time using over/covert GPS integration
- Support for custom attributes and floor plans
 - Buses, trains,
 buildings,
 schools, etc.

